

ADAPTING AND THRIVING DESPITE A CHANGING CLIMATE



Sea level rise. Heavier downpours. More frequent and severe coastal flooding. Declining water levels in the Great Lakes. A changing climate will intensify these and other hazards facing coastal communities.

The NOAA Coastal Services Center can help communities reduce the potential harm to residents, infrastructure, and natural resources—and even identify new opportunities arising from a changing climate.

Offering a wide array of products and services, the Center translates important findings into accessible information, data, and tools used by coastal managers to tackle climate-related challenges. These resources also enable communities to incorporate climate considerations into existing land use, conservation, and hazards planning initiatives.



NOAA Coastal Services Center
LINKING PEOPLE, INFORMATION, AND TECHNOLOGY

Products and Services

The NOAA Coastal Services Center helps coastal towns and cities address challenges by providing relevant

- Tools
- Data and information
- On-the-ground adaptation examples
- Technical assistance
- Training
- Publications and how-to guides

See the reverse page for specific product information, and visit www.csc.noaa.gov/climate/ to gain access to these products.



Coastal Inundation Mapping course participants learn how to map local flood scenarios, including those influenced by sea level rise.

A SAMPLING OF CLIMATE-RELATED RESOURCES

"The readiness is all."

William Shakespeare, Hamlet

Tools

CanVis Visual Simulation Tool – Enables users to visualize climate change impacts and consider various adaptation strategies

Coastal County Snapshots – Provides important county data, including demographics, ocean jobs, land cover, and environmental information, in an easy-to-understand format

Habitat Priority Planner GIS Tool – Identifies high-priority locations for conservation and restoration; can be used with climate change scenarios

Sea Level Rise and Coastal Flooding Impacts

Viewer – Now available for select coastal areas and expanding soon to others

Technical Assistance

Coastal Management Fellowship – Provides on-the-job education and training for postgraduate students as well as assistance to state programs

One-on-One Assistance – Provides guidance for community engagement and consensus building

Data and Information

Coastal Climate Adaptation Website – Features adaptation plans, risk and vulnerability assessments, and other resources

Coastal Inundation Toolkit – Helps communities assess inundation risks through Digital Coast tools and resources

Conserving Coastal Wetlands for Sea Level Rise

Adaptation – Helps identify vulnerabilities and priorities for wetland conservation efforts through geospatial techniques, resources, and examples

Digital Coast Spatial Data Resources – Include land cover, elevation, and shoreline data sets

Training

Coastal Inundation Mapping – Teaches participants about coastal inundation issues and spatial techniques

GIS Tools for Strategic Conservation Planning –

For strategic conservation planning using a "green infrastructure" approach

Planning for Climate Change – For understanding anticipated climate change impacts and strategies for engaging stakeholders

Roadmap for Adapting to Coastal Risk Virtual

Workshop – For characterizing exposure to hazard and climate threats and assessing how planning and policy efforts can address such issues

Publications and How-To Guides

Local Strategies for Addressing Climate Change,

Volumes 1 and 2 – These stories from past editions of *Coastal Services* magazine focus on programs, products, and services that help communities improve their resilience to climate and other hazards

Visit www.csc.noaa.gov/climate/ to obtain these products and services. In addition, the NOAA Climate Services portal provides access to data, publications, and additional resources at www.climate.gov.